

1/11

Fig. 1

The diagram illustrates the internal components of an optical disk medium (101) and their connections to a host (109) and a control microcomputer (1201). The components and their connections are as follows:

- OPTICAL DISK MEDIUM (DVD):** This is represented by an oval containing the following components:
  - SPINDLE MOTOR (102):** Connected to the **OPTICAL PICKUP (103)**.
  - OPTICAL PICKUP (103):** Connected to the **RF SIGNAL PROCESSING BLOCK (104)** and the **SERVO BLOCK (115)**.
  - RF SIGNAL PROCESSING BLOCK (104):** Connected to the **CONTROLLER BLOCK (118)** and the **SERVO BLOCK (115)**.
  - SERVO BLOCK (115):** Connected to the **SPINDLE MOTOR (102)** and the **CONTROLLER BLOCK (118)**.
  - SPINDLE MOTOR (102):** Also connected to the **SERVO BLOCK (115)**.
- HOST (109):** Connected to the **CONTROLLER BLOCK (118)**.
- CONTROL MICROCOMPUTER (1201):** Connected to the **CONTROLLER BLOCK (118)** and the **RF SIGNAL PROCESSING BLOCK (104)**.
- CONTROLLER BLOCK (118):** Receives connections from the **HOST (109)**, the **RF SIGNAL PROCESSING BLOCK (104)**, and the **CONTROL MICROCOMPUTER (1201)**.
- OPTICAL DISK PLAYER (1201):** A label for the entire system, encompassing the **HOST (109)** and the **CONTROL MICROCOMPUTER (1201)**.

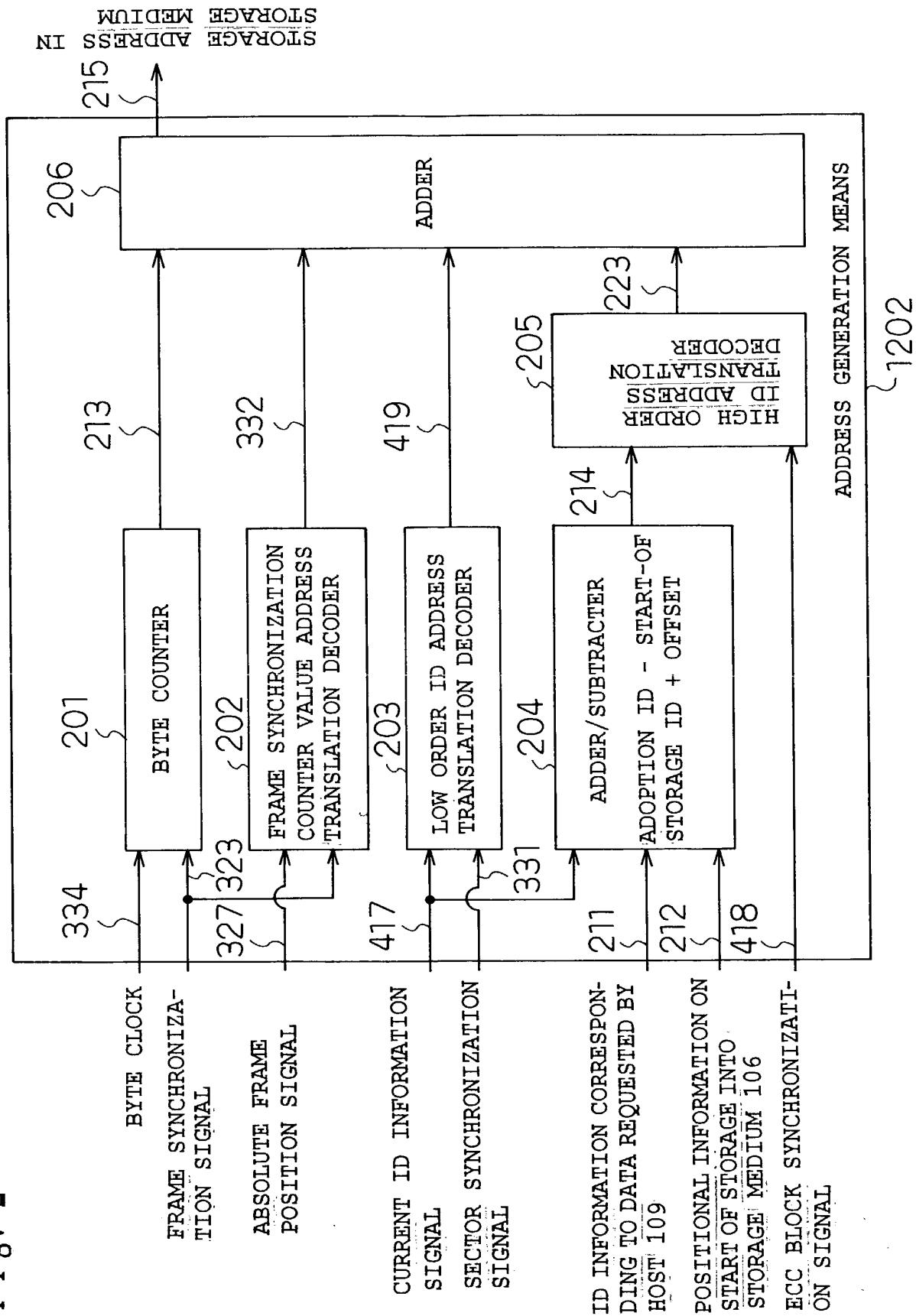
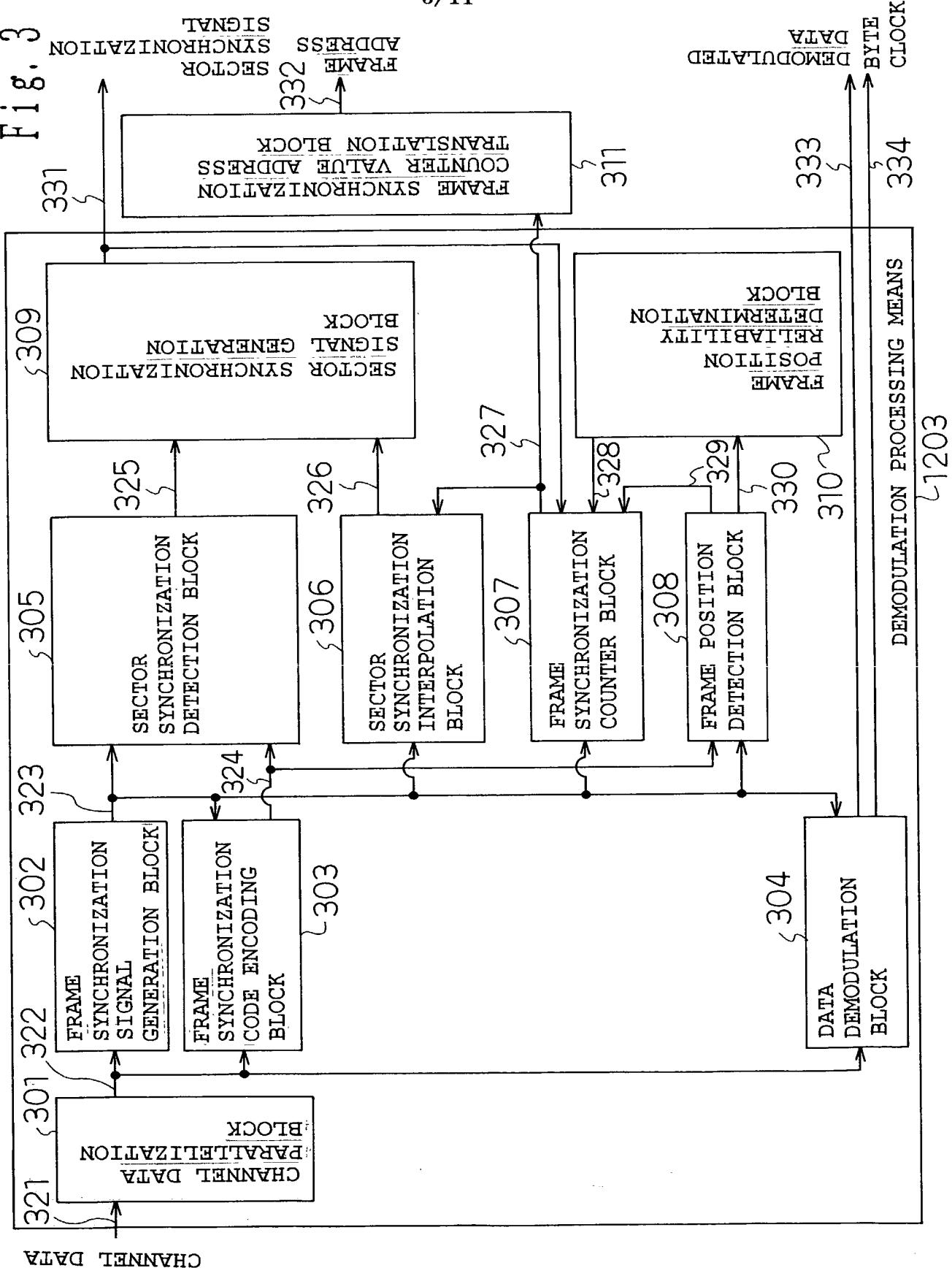
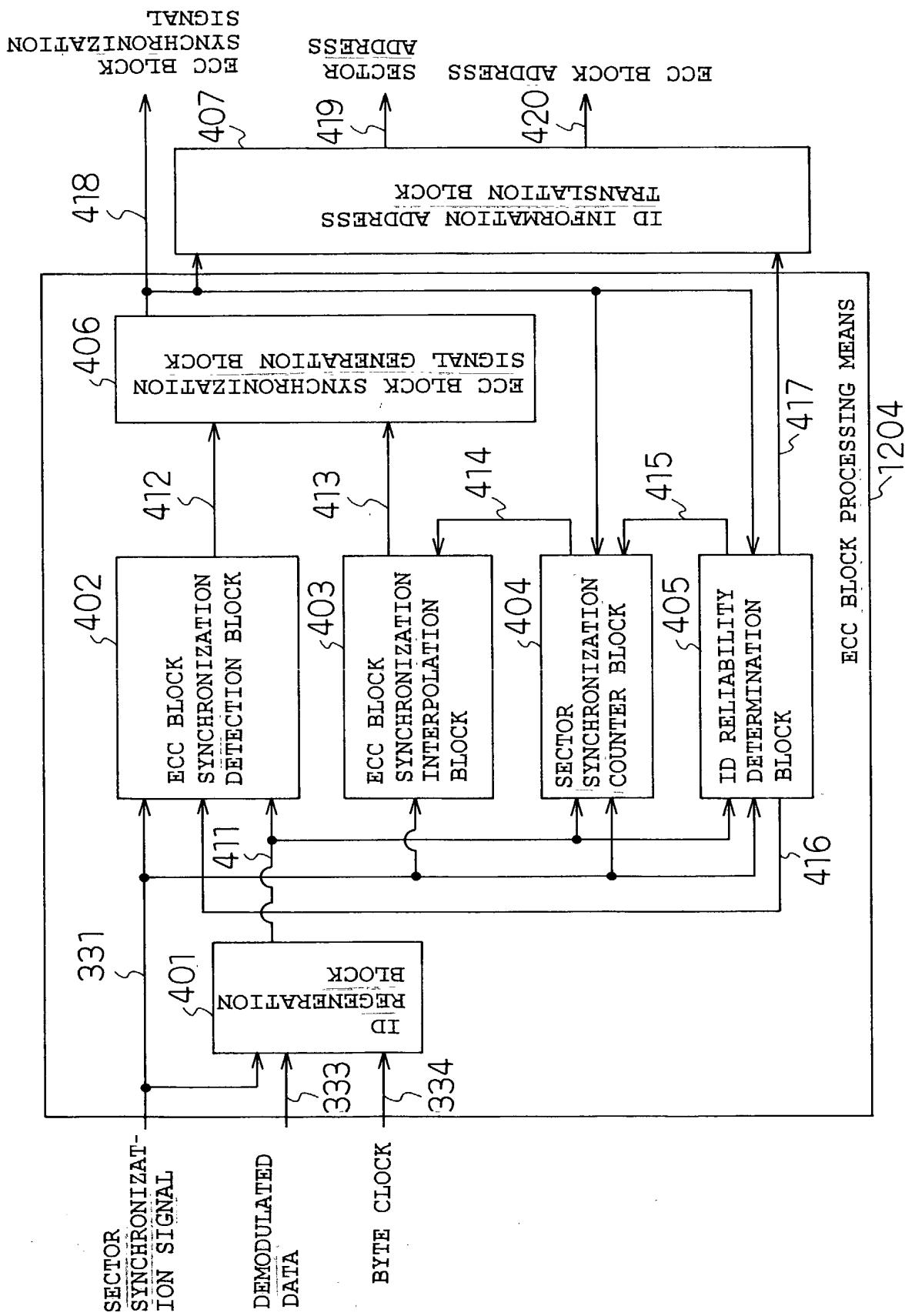
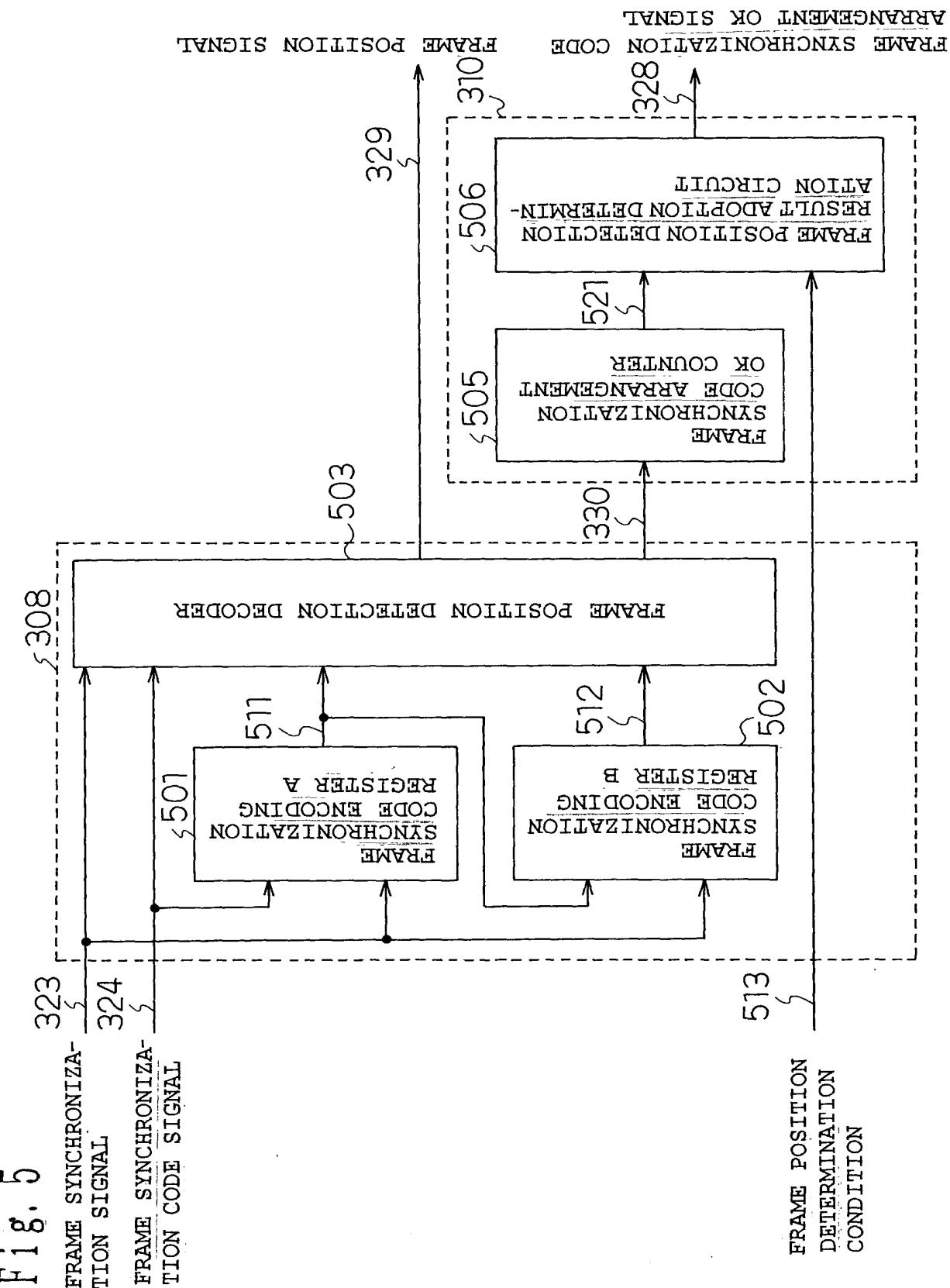


Fig. 3





5/11



6/11

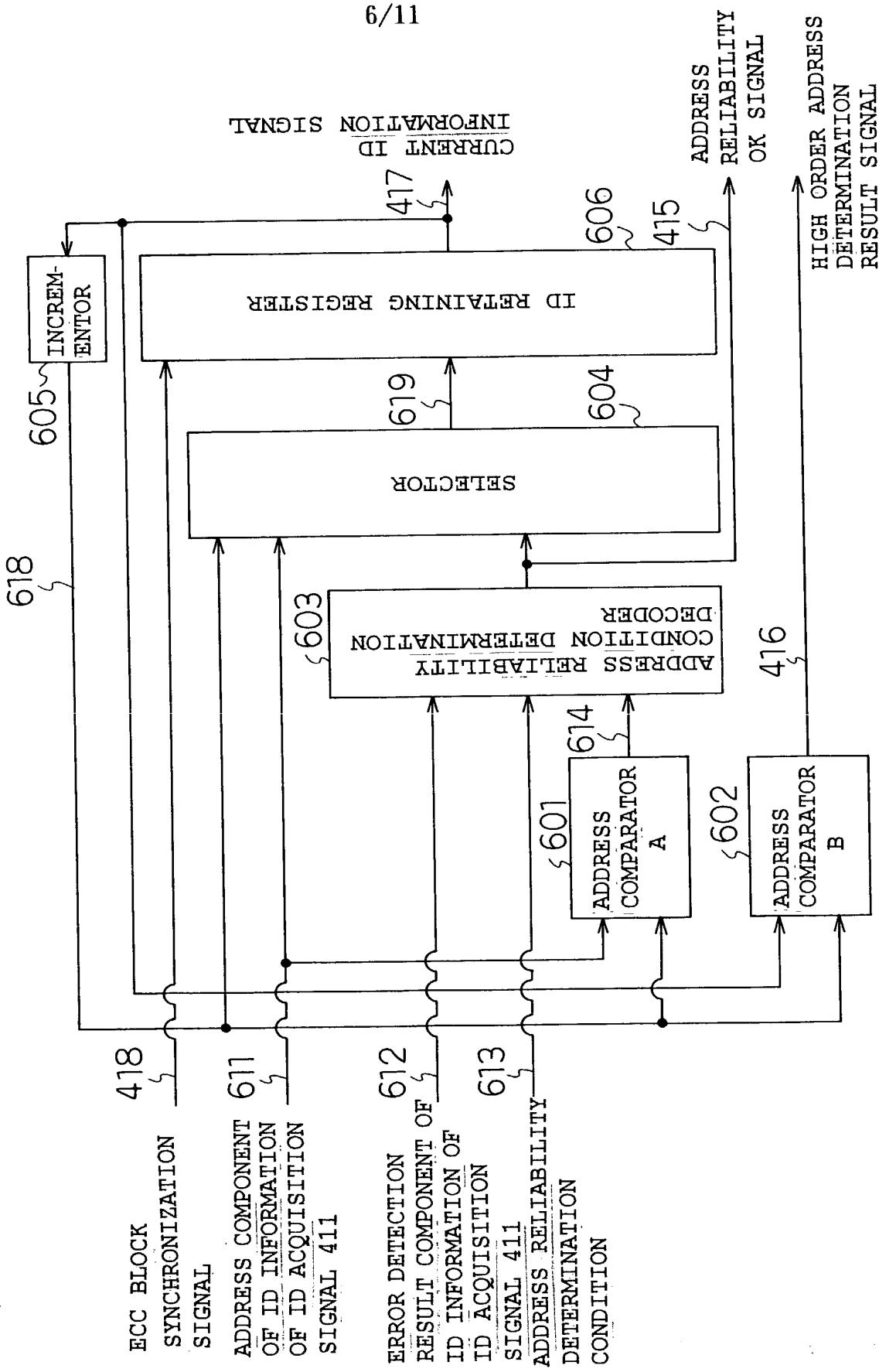
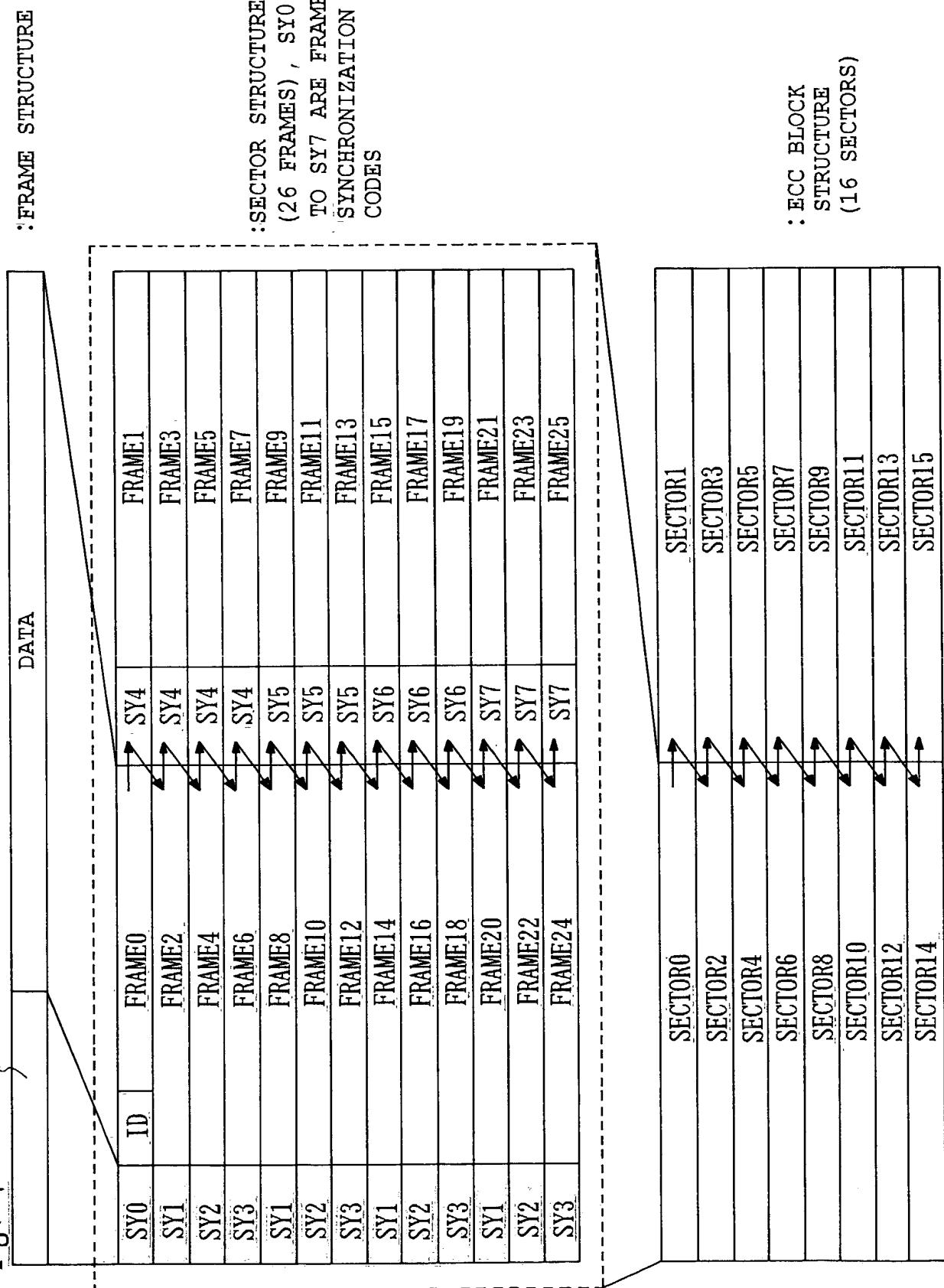


Fig. 6

Fig. 7 FRAME SYNCHRONIZATION CODE + FRAME SYNCHRONIZATION



8/11

Fig. 8

FRAME SYNCHRONIZATION CODE	FRAME SYNCHRONIZATION CODE SIGNAL
SY0	00000001b
SY1	00000010b
SY2	00000100b
SY3	00001000b
SY4	00010000b
SY5	00100000b
SY6	01000000b
SY7	10000000b

Fig. 9 (a)

RELATIVE FRAME POSITION SIGNAL (Dec)	FRAME ADDRESS (Hex)
0	000
1	080
2	100
3	180
4	200
5	280
6	300
7	380
8	400
9	480
10	500
11	580
12	600
13	680
14	700
15	780
16	800
17	880
18	900
19	980
20	A00
21	A80
22	B00
23	B80
24	C00
25	C80

Fig. 9 (b)

LOW ORDER FOUR BITS OF CURRENT ID INFORMATION SIGNAL (Dec)	SECTOR ADDRESS (Hex)
0	0000
1	0D00
2	1A00
3	2700
4	3400
5	4100
6	4E00
7	5B00
8	6800
9	7500
10	8200
11	8F00
12	9C00
13	A900
14	B600
15	C300

Fig. 9 (c)

RELATIVE ECC BLOCK ADDRESS (Dec)	ECC BLOCK ADDRESS (Hex)
0	00000
1	0D000
2	1A000
3	27000
4	34000

10/11

Fig. 10 (a)

N <sup>TH</sup> SECTOR	N+1 <sup>TH</sup> SECTOR	DEFECTIVE SECTOR	N+2 <sup>TH</sup> SECTOR	N+3 <sup>TH</sup> SECTOR	...
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Fig. 10 (b)

N <sup>TH</sup> ECC BLOCK	N+1 <sup>TH</sup> ECC BLOCK	DEFECTIVE SECTOR	N+3 <sup>TH</sup> ECC BLOCK	N+4 <sup>TH</sup> ECC BLOCK	...
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11/11

Fig. 11

